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Conserved quantities for Non-relativistic systems via the Eisenhart-Duval lift

Thursday 9 December 2021 10:00 (1 hour)

Abstract: In this talk I will discuss conserved quantities of some non-relativistic systems originating from symmetries of a particular class of pp-waves called exact plane gravitational waves. In particular, I will consider periodic gravitational waves and corresponding non-relativistic systems called ion traps. I will show how the symmetries of the former yield conserved quantities for the latter.

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